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**CONFIDENTIAL FACSIMILE COVER SHEET**

**TO:** NAME & COMPANY  
Group Art Unit 3679  
Examiner: Flemming Saether  
USPTO

**FAX NO.**  
703-305-7687

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**FROM:** Wayne L. Lovercheck  
**CLIENT:** Peters, Jeffrey H. 54033.0003

**DATE:** April 29, 2004  
**PAGES:** Seven (7) (incl. cover sheet)

**OFFICIAL**

**RE:** JAMES E VAN SCOYOC, JR  
SERIAL NO 10/017,041  
Confirmation No 6545  
For: Fluid flow bolt system

Group Art Unit: 3679  
Examiner: Flemming Saether  
Filed: December 12, 2001

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*Patricia J. Lintelman*  
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The following pages include:

- 1) Revocation of Power of Attorney given to Michael S. Neustel (1 page)
- 2) Power of Attorney appointing Wayne L. Lovercheck (1 page)
- 3) Amendment in response to the Office Action dated January 30, 2004. (4 pages)

**HARD COPY TO FOLLOW** ☐ YES ☒ NO

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
PATENT OPERATIONS

In re: Application of

Attorney's Docket No. 54102.0002 (Van Scoyoc)

JAMES E VAN SCOYOC, JR.

Group Art Unit: 3679

Serial No. 10/017,041

Examiner: Flemming Saether

Confirmation No. 6545

Filed: December 12, 2001

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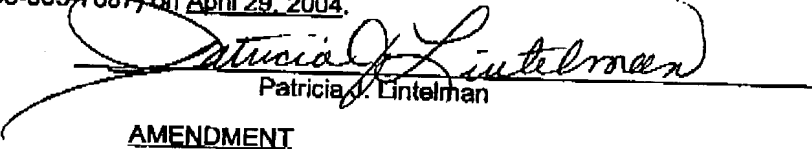
APR 29 2004

For: Fluid flow bolt system

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Patricia J. LintelmanAMENDMENTBOX NON-FEE AMENDMENT  
ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D. C. 20231

Dear Sir:

## INTRODUCTORY COMMENTS

In response to the Office Action dated January 30, 2004, please amend the above identified U.S. patent application as follows: The Claims remaining in the case are Claims 1 through 11, and 21, as amended. The Examiner has rejected Claims 1, 4, 6, 7, and 9 through 11 under 35 U.S.C. 103(a) as being unpatentable over Hindle (H1258) in view of Schiefer (US 4,730,966) and Terizzi (US 5,407,312), and the Examiner rejects Claims 3 and 21 under 35 U.S.C. 103(a) as being unpatentable over Hindle in view of Schiefer and further in view of Cook (US 2,037,066).

A fluid flow bolt or fastener serves the function of providing a fluid flow path for fluid to flow through, through a threaded fastener when secured within a component. The invention provides an open channel, which when secured without a component provides a fluid flow path for fluid to flow through. None of the Patents cited by the Examiner teach a fluid flow fastener, which allows fluid to flow through a threaded fastener when secured within a component, nor would it be obvious from the references cited to provide an open channel for a fluid flow path.

Statutory Invention Registration No. H1258 to Hindle, published December 7, 1993, is for a blade-lock screw or set screw that serves to secure the blades to the drum rotor of a compressor in a gas turbine engine. The improvement illustrated in this Patent is the ease of removal of the blade-lock component. The set screw 24 described in Hindle includes three equally spaced grooves 50, which extend from the top surface to the neck 34. The axial slots 50 act to reduce torque loads necessary for removal after considerable engine operation time. They also act to enhance thread-cleaning capability and allows the penetration of lubrication fluids to the threads during tear down and thus facilitating taking the structure apart but not facilitating operation in any respect. There is no flow through the bolt.

As to Schiefer, U.S. Patent No. 4,730,966, for a an expansion bolt assembly there is no material to flow in this disclosure. There is no material placed in or flowing through the expansion bolt assembly of Schiefer.

As to Terizzi, U.S. Patent No. 5,407,312, there is disclosed the lower base and shank each having a function facilitating material reservoir channels provided with a function facilitating material selected from the group of bonding agent, friction-reducing agent, a lubricant, a sealing agent, for example, caulking compound, a resilience providing agent, or combination of such materials. None of these materials is intended to flow through the fastener system of Terizzi. They are placed in and perform their function in place.

As to Cook, U.S. Patent No. 2,037,066, for a connector, again, there is no material placed in or that flows through the connector of Cook. Taken together, there is no teaching of a surface channel, which provides for the flowing through of fluids from one part of a component to another when the flow through bolt is installed in a component.